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(54) METHOD FOR SEPARATING OR FILTERING TEST SAMPLE ON BIO-CHIP BY USING CARBON NANO-TUBE

(57) Abstract:

PURPOSE: A method for separating or filtering a test sample on a bio-chip is provided to prevent the test sample from being contaminated by separating or filtering the test sample in a micro-sized channel or chamber formed in the bio-chip. CONSTITUTION: A test sample is provided in a sample loading section on a bio-chip. Then, the test sample is introduced into a channel or a chamber connected to the sample loading section. Material contained in the test sample is selectively separated or filtered according to an alignment interval of carbon nano-tubes, which are aligned in the channel or the chamber. The alignment interval of carbon nano-tubes is about few nanometer to hundreds of micrometers. The channel or the chamber has a size in a range about few nanometer to hundreds of micrometers.



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